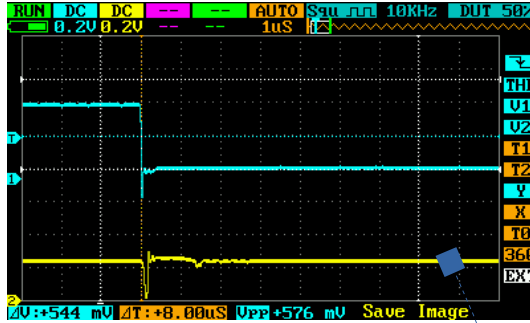


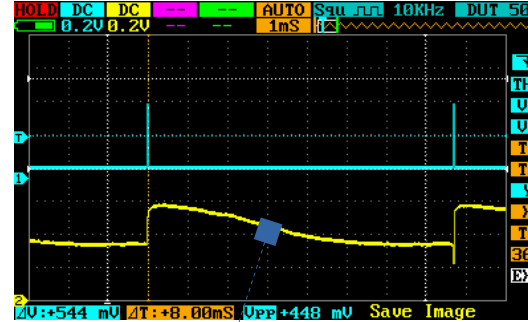
Pin-Pointer Metal Detector – Oscilloscope Traces

By TechKiwi
Jan 2018

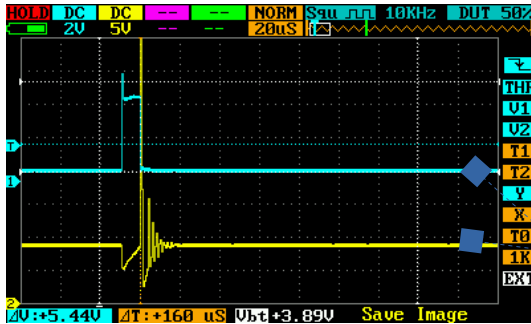
RX Circuit Input:
1. Blue Trace 2V per cm – Arduino TX Pulse (Trigger)
2. Yellow Trace 2V per cm – RX transistor input on Base



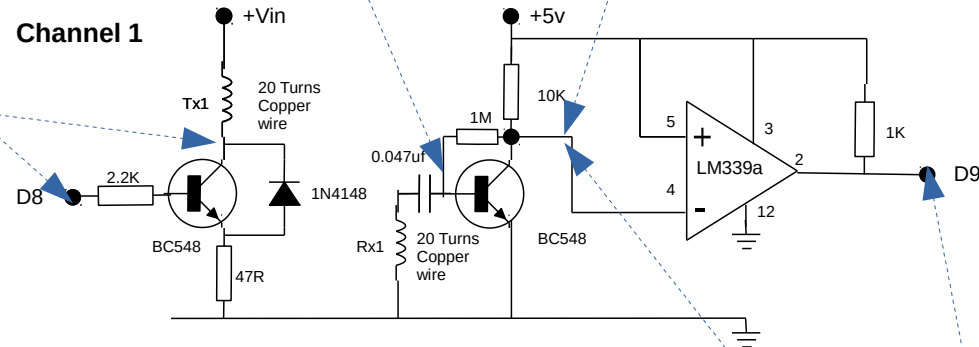
RX Circuit Output:
1. Blue Trace 2V per cm – Arduino TX Pulse (Trigger)
2. Yellow Trace 2V per cm – RX transistor output on RX Collector



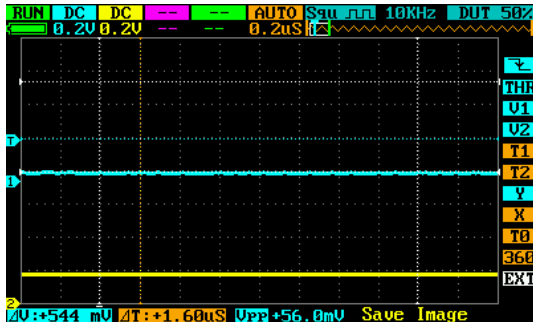
TX Circuit:
1. Blue Trace 2V per cm – Arduino TX Pulse (Trigger)
2. Yellow Trace 5V per cm – TX transistor output on Collector



Channel 1



Note:
1. Two Traces used with Zero Baseline as below
2. Unless shown scale is 2V per cm



Schmitt Trigger effect to clean up pulse:
1. Blue Trace 2V per cm – LM339 Output to Arduino (Trigger)
2. Yellow Trace 2V per cm – RX transistor output on RX Collector

